

## What makes fixed-length data so hard?

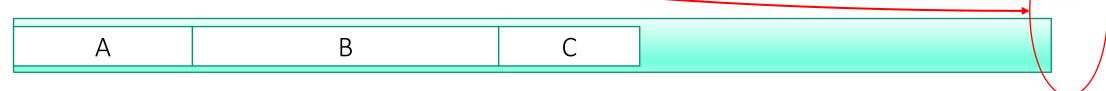
Original Fixed-length message with A, B, C fields



Requirements evolve - want to add D, E fields, but be backward compatable

Add flag bits (X) at end of current data. 0 = original, 1 = extended.

So add at the end. But they won't fit.



Ah ha! Turns out when D, E, are in use, B is not needed.



So we re-purpose B's space to hold E for the extended message.





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... the extended message looks like this:

